

PIN Power Inductor

RCH8010



Description

- Ferrite core construction.
- Magnetically unshielded.
- LxWxH:8.3x8.3x10mm Max.
- Product weight: 1.6g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C

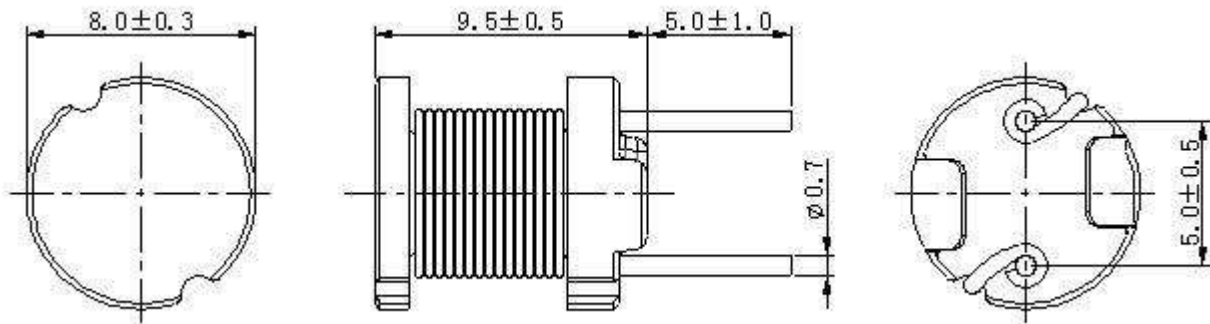
Packaging

- Box Packaging

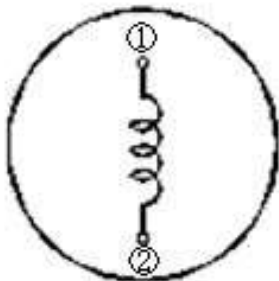
Applications

- Ideally used in Printers, LCD TV, LED Driver, Copy Machine, Mainboard of the compounding machines etc. as DC-DC Converter inductors.

Dimension - [mm]



Wire Connection





Electrical Characteristics

Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C max(typ) (m Ω)	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
RCH8010NP-100M	10.00 \pm 20%	39.80 (33.20)	5.60	3.80
RCH8010NP-150M	15.00 \pm 20%	48.50 (40.40)	5.00	3.30
RCH8010NP-220M	22.00 \pm 20%	60.60 (50.50)	4.00	3.00
RCH8010NP-330M	33.00 \pm 20%	77.40 (64.50)	3.30	2.70
RCH8010NP-470M	47.00 \pm 20%	111.20 (92.70)	2.80	2.20
RCH8010NP-680M	68.00 \pm 20%	141.80 (118.20)	2.40	2.00
RCH8010NP-101M	100 \pm 20%	225.60 (188)	2.00	1.50
RCH8010NP-151M	150 \pm 20%	319.80 (266.50)	1.60	1.30
RCH8010NP-221M	220 \pm 20%	0.47 (0.39)	1.30	1.00
RCH8010NP-331M	330 \pm 20%	0.71 (0.59)	1.05	0.85
RCH8010NP-471M	470 \pm 20%	0.98 (0.82)	0.89	0.72
RCH8010NP-681M	680 \pm 20%	1.38 (1.15)	0.75	0.60
RCH8010NP-102M	1000 \pm 20%	2.16 (1.80)	0.62	0.47
RCH8010NP-152M	1500 \pm 20%	3.28 (2.73)	0.49	0.39
RCH8010NP-222M	2200 \pm 20%	5.24 (4.37)	0.41	0.30
RCH8010NP-332M	3300 \pm 20%	8.02 (6.68)	0.33	0.26
RCH8010NP-472M	4700 \pm 20%	10.68 (8.90)	0.29	0.24

※1 Measuring frequency at 1kHz 250mV.

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 90% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

PIN Power Inductor

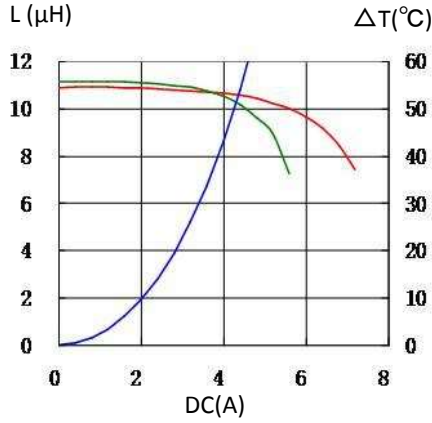
RCH8010



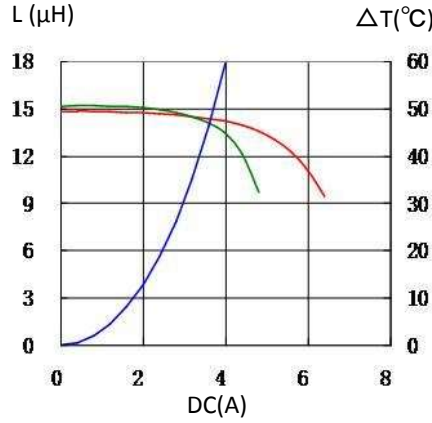
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

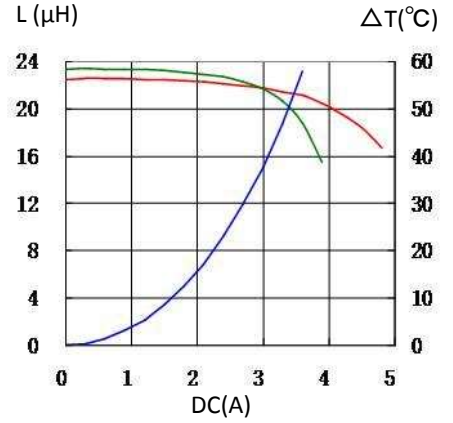
1. RCH8010NP-100M



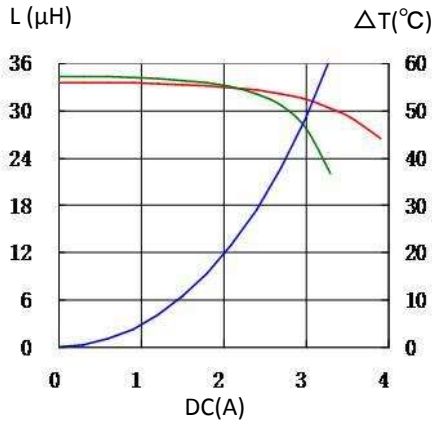
2. RCH8010NP-150M



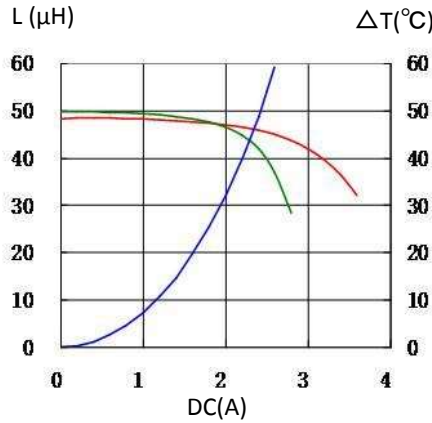
3. RCH8010NP-220M



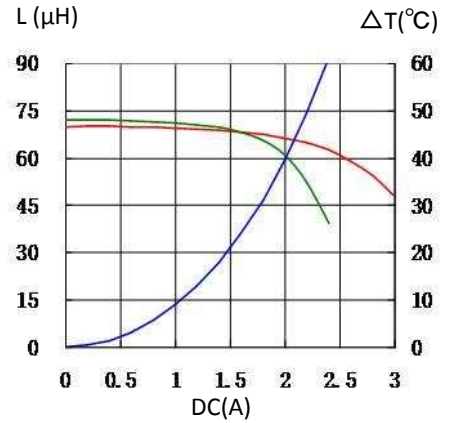
4. RCH8010NP-330M



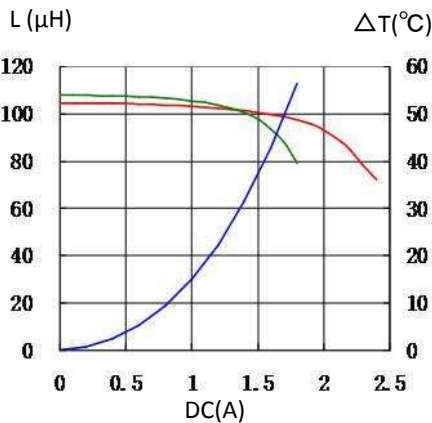
5. RCH8010NP-470M



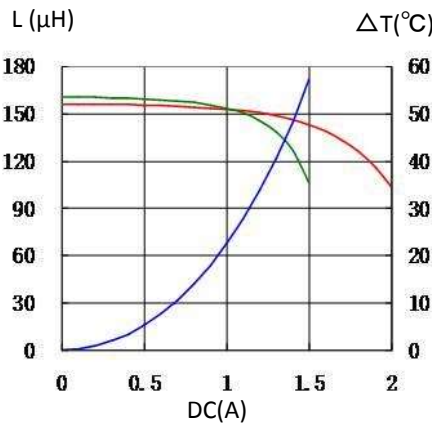
6. RCH8010NP-680M



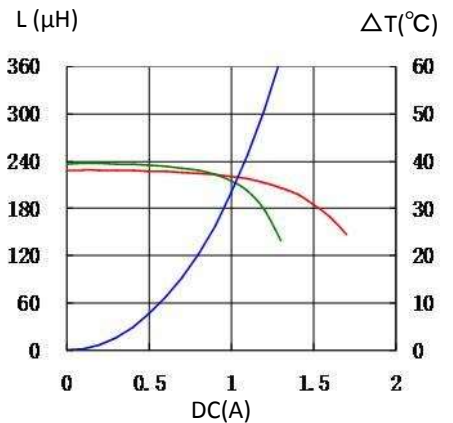
7. RCH8010NP-101M



8. RCH8010NP-151M



9. RCH8010NP-221M



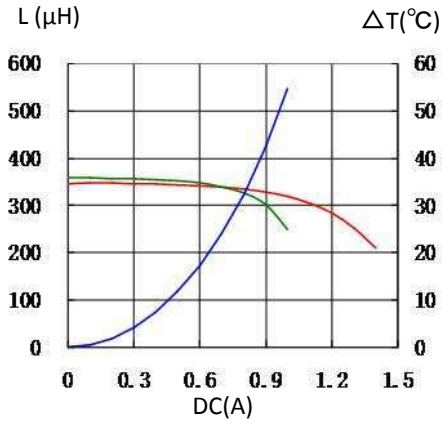
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

PIN Power Inductor

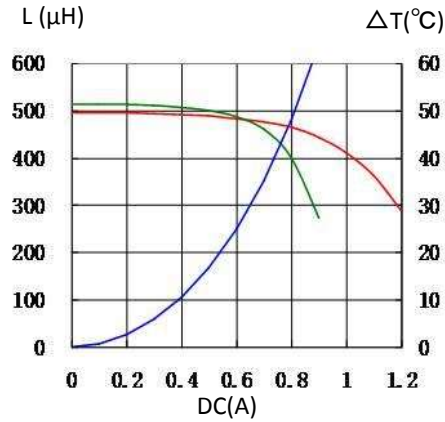
RCH8010



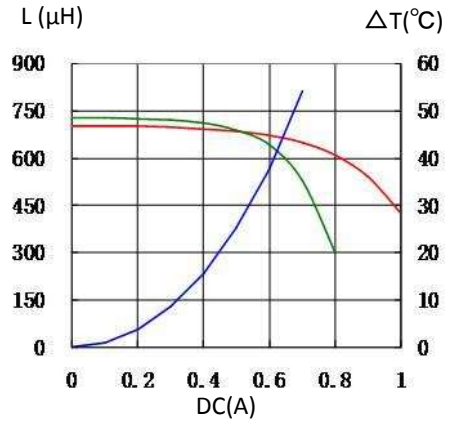
10. RCH8010NP-331M



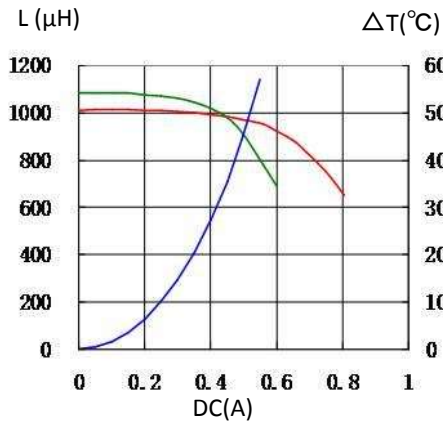
11. RCH8010NP-471M



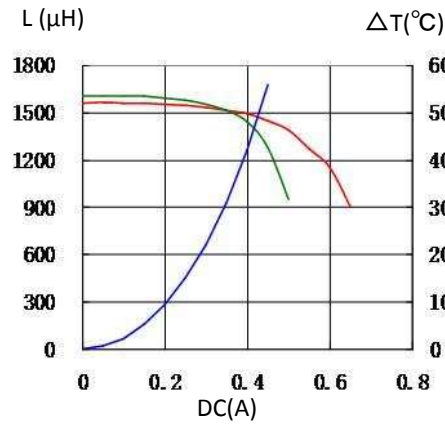
12. RCH8010NP-681M



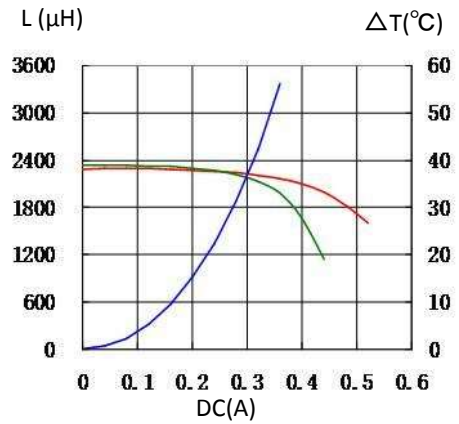
13. RCH8010NP-102M



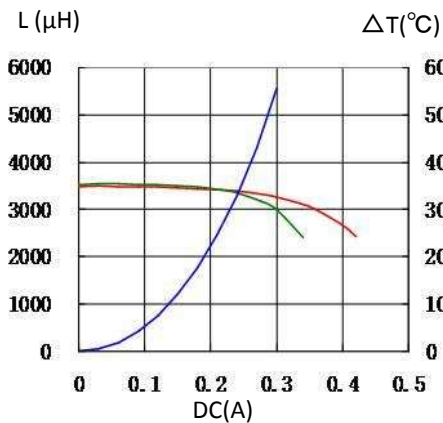
14. RCH8010NP-152M



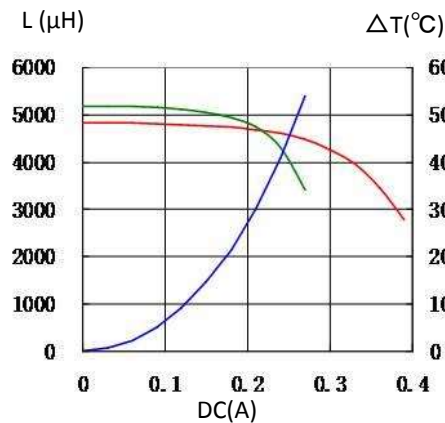
15. RCH8010NP-222M



16. RCH8010NP-332M



17. RCH8010NP-472M



For sales office information, please [click here](#) to visit our website.